PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



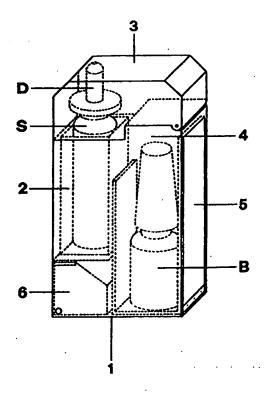
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| (51) International Patent Classification ⁶ : | | (11) International Publication Number: WO 98/51257 | | |
|--|---------|--|--|--|
| A61J 1/00, A45C 11/00 | A1 | (43) International Publication Date: 19 November 1998 (19.11.98) | | |
| (21) International Application Number: PCT/IT (22) International Filing Date: 30 March 1998 (| • | DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). | | |
| (30) Priority Data: CA97A000014 9 May 1997 (09.05.97) CA97U000003 12 June 1997 (12.06.97) | : | Published With international search report. TT | | |
| (71)(72) Applicant and Inventor: VARGIU, Paolo [IT: Grazia Deledda, 21 B, I-09048 Sinnai (IT). | /IT]; V | ia | | |
| (74) Agent: MASCIOLI, Alessandro; Via Urbana, 20, Roma (IT). | I-001 | 34 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

(54) Title: A MULTI-CONTAINER DEVICE FOR THE POCKET TRANSPORT OF ANTI-ALLERGIC MEDICINE

(57) Abstract

The multi-container device (1) according to the present invention, for the pocket transport of anti-allergic medicine, comprises a plurality of shaped and separated housings (2, 4, 6, 10), each provided with its own access and safety closing means (3, 5, 8) for the medicines to be used, in a disposition that makes the transport encumbrance as little as possible.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

| AL | Albania | ES | Spain | LS | Lesotho | SI | Slovenia |
|----|--------------------------|----|---------------------|----|-----------------------|----|--------------------------|
| AM | Armenia | FI | Finland | LT | Lithuania | SK | Slovakia |
| AT | Austria | FR | Prance | LU | Luxembourg | SN | Senegal |
| ΑU | Australia | GA | Gabon | LV | Latvia | SZ | Swaziland |
| AZ | Azerbaljan | GB | United Kingdom | MC | Monaco | TD | Chad |
| BA | Bosnia and Herzegovina | GE | Georgia | MD | Republic of Moldova | TG | Togo |
| BB | Barbados | GH | Ghana | MG | Madagascar | TJ | Tajikistan |
| BE | Belgium | GN | Guinea | MK | The former Yugoslav | TM | Turkmenistan |
| BF | Burkina Faso | GR | Greece | | Republic of Macedonia | TR | Turkey |
| BG | Bulgaria | HU | Hungary | ML | Mali | TT | Trinidad and Tobago |
| BJ | Benin | IB | Ireland | MN | Mongolia | UA | Ukraine |
| BR | Brazil | IL | Israel | MR | Mauritania | ŲG | Uganda |
| BY | Belarus | IS | Iceland | MW | Malawi | US | United States of America |
| CA | Canada | IT | Italy | MX | Mexico | UZ | Uzbekistan |
| CF | Central African Republic | JP | Japan | NE | Niger | VN | Viet Nam |
| CG | Congo | KE | Kenya | NL | Netherlands | YU | Yugoslavia |
| CH | Switzerland | KG | Kyrgyzsian | NO | Norway | zw | Zimbabwe |
| CI | Côte d'Ivoire | KP | Democratic People's | NZ | New Zealand | | |
| CM | Cameroon | | Republic of Korea | PL | Poland | | |
| CN | China | KR | Republic of Korea | PT | Portugal | | |
| CU | Cuba | KZ | Kazakstan | RO | Romania | | |
| CZ | Czech Republic | LC | Saint Locia | RU | Russian Federation | | |
| DB | Germany | LI | Liechtenstein | SD | Sudan | | |
| DK | Denmark | LK | Sri Lanka | SE | Sweden | | • |
| EE | Estonia | LR | Liberia | SG | Singapore | | |

"A MULTI-CONTAINER DEVICE FOR THE POCKET TRANSPORT OF ANTI-ALLERGIC MEDICINE"

The present invention concerns a multi-container device for the pocket transport of anti-allergic medicine to be taken by mouth and/or for external use.

It is known that patients suffering from allergies are forced - according to the seasons or the places in which they are living - to carry about different packings of medicines like, e.g., eye drops againts a strong lacrimation, a nose spray or inhaler for breathing fits and antihistaminic tablets for modulating both troubles at a systemic level.

It is the aim of the present invention to eliminate the inconveniences deriving from the difficulty of finding in a very short time in a bag or in a pocket the specific medicine for contrasting the first symptoms of the allergy.

The art doesn't know, at present, a single container that may be carried about by the patients and that may contain all medicines of above described kind, allowing an easy and practical use thereof.

The aim set forth is reached by means of the multicontainer according to the present invention, comprising a plurality of shaped and separated housings, each provided with its own access and safety closing means for the medicines to be used, in a disposition that makes the transport encumbrance as little as possible.

The advantage of the device according to the present invention is evident.

The device according to the present invention will be described in detail hereinbelow relating to the enclosed drawings, in which some embodiments are shown.

Figure 1 shows an axonometric and transparent view of a multi-container device according to the present invention for the pocket transport of anti-allergic medicines, with horizontally pivoted structures for the access to the contents of the separate divisions, shown in opening position in figure 2.

Figures 3 and 4 show an axonometric and transparent view the opening position of a variant of the device according to the present invention, with differentiated access structures.

Figures 5 and 6 show a variant with a container devided into sections accessible through one single panel.

Figure 7 shows a variant with four sections, also provided with a single-container - beyond the ones listed in the preceding variants - for drinkable water, for possibly swallowing tablets, shown in detail in figure 8.

The enclosed figures show a multi-container device for the pocket transport of anti-allergic medicine, comprising a compact structure 1 devided in a plurality of sections:

- a space 2 for housing a nose spray S, protected by a proportioning device D for sterility and hygiene reasons, accessible through its own lid 3;
- a space 4 for the interchangeable eye drops bottle B; with a horizontally pivoted access structure 5;
- a horizontally pivoted space 6 for containing antihistaminic tablets, with a possible proportioning device 7;
- possible means for hooking said container 1 to the belt of the trousers or to the pocket of a shirt, a jacket or other;
- possible different colours for the different sections of said container 1, for a quick visual location of the content thereof.

In the variant of the device according to the present invention shown in figures 3, 4, all containing spaces are accessible through lids on fulcrum hinges 8, while in the variant shown in figures 5, 6 the spaces are accessible through the sole ad common lid 9.

The variant shown in figures 7, 8 shown, as mentioned, beyond the different spaces for said medicines, also a small container 10 with a means 11 for the outlet of drinkable water, that may be carried about for swallowing tablets or similar.

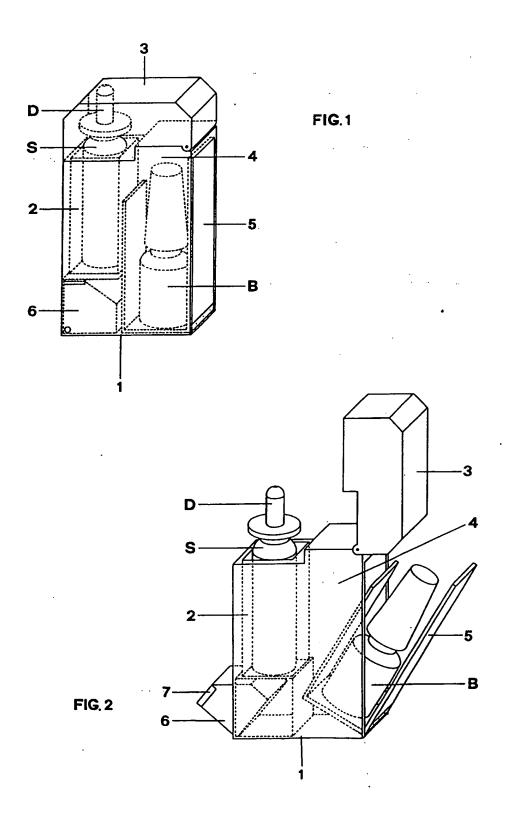
CLAIMS

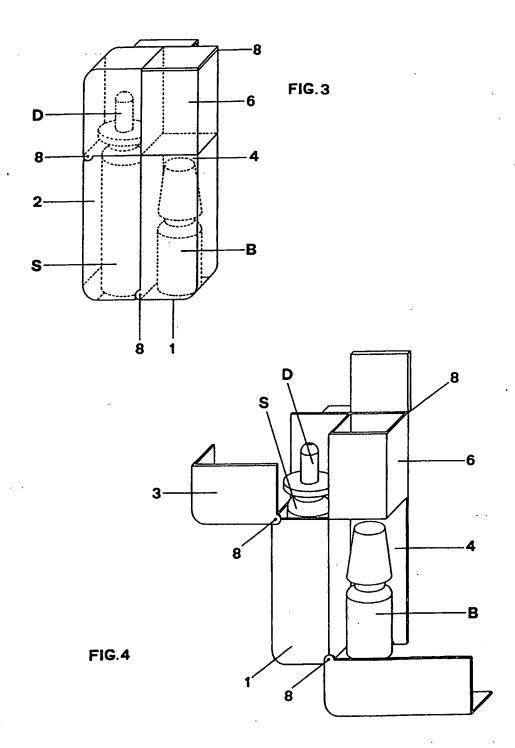
- 1. A multi-container device for the pocket transport of antiallergic medicine, comprising a compact structure (1) devided in a plurality of sections:
 - a space (2) for housing a nose spray (S), protected by a proportioning device (D) for sterility and hygiene reasons, accessible through its own lid (3);
 - a space (4) for the interchangeable eye drops bottle (B), with a horizontally pivoted access structure (5);
 - a horizontally pivoted space (6) for containing antihistaminic tablets, with a possible proportioning device (7);
 - possible means for hooking said container (1) to the belt of the trousers or to the pocket of a shirt, a jacket or other;
 - possible different colours for the different sections of said container (1), for a quick visual location of the content thereof.
- 2. A device according to claim 1, characterized in lids on fulcrum hinges (8) for a quick visual location of the content.
- 3. A device according to claim 1, characterized in a sole common lid (9).

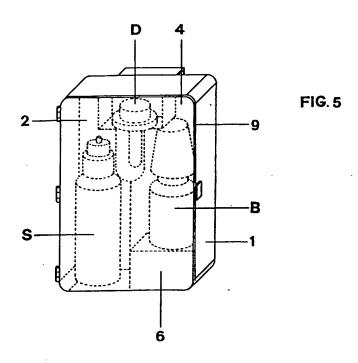
4. A device according to claim 1, characterized in the presence of a small container (10) with a means (11) for the outlet of drinkable water, that may be carried about for swallowing tablets or similar.

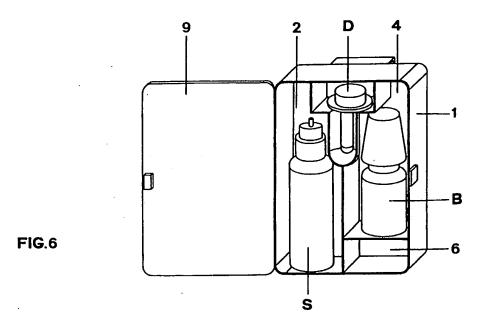
WO 98/51257 PCT/IT98/00072

1/4









WO 98/51257 PCT/IT98/00072

4/4

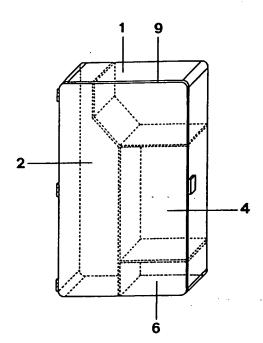


FIG.7

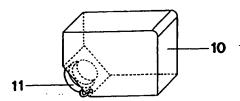


FIG.8

INTERNATIONAL SEARCH REPORT

Inte lonal Application No PCT/IT 98/00072

| A. CLASSIFICATION OF SUBJECT MATTER IPC 6 A61J1/00 A45C11/00 | | | | |
|--|--|---|-----------------------|--|
| | | | | |
| According to | o International Patent Classification (IPC) or to both national classific | ation and IPC | | |
| | SEARCHED | | | |
| | ocumentation searched (classification system followed by classification | on symbols) | | |
| IPC 6 | A61J A45C B65D A61B A45D | | | |
| | | | | |
| Oocumenta | tion searched other than minimum documentation to the extent that s | uch documents are included in the fields sea | arched | |
| | | | | |
| Ci-eimplo d | ata base consulted during the international search (name of data ba | an and where practical search terms used) | | |
| Electronic u | ata base consumed drumg the international search friame or oata oa | Se and, where practical, search terms soon, | | |
| | | | | |
| | | | | |
| C DOCUM | ENTS CONSIDERED TO BE RELEVANT | | | |
| Category * | Citation of document, with indication, where appropriate, of the rele | evant passages | Relevant to claim No. | |
| Calogo., | Charles of the control of the contro | | | |
| Υ | DE 92 13 830 U (SCHOLZ) 24 Decemb | nor 1992 | 1 . | |
| • | see claim 1; figures |)ei 1552 | • | |
| | | | | |
| Υ | US 5 611 447 A (WILLIAMS G. TYE) | 18 March | 1 | |
| | 1997 | | • | |
| | see the whole document | | • | |
| Α | DE 91 07 020 U (SCHWARZ) 25 July | 1991 | 1,4 | |
| | see the whole document | | • | |
| , | | | • | |
| Α | US 4 518 092 A (CONTRERAS) 21 May see claims; figures | / 1985 | 1 | |
| | See Craims, rigures | | | |
| Α | US 5 004 106 A (PROTECTION PROTEC | CTION | 2 | |
| | INC.) 2 April 1991 | | | |
| | see column 4, line 25 - line 39 | Hauman | | |
| | see column 6, line 4 - line 28; f | rigures | | |
| | - | -/ | | |
| | | | | |
| □ Furth | er documents are listed in the continuation of box C. | Y Patent family members are listed in | n annay. | |
| | | A Training Indiana | | |
| * Special cat | egories of cited documents : | "T" later document published after the inten | national filing date | |
| | nt defining the general state of the art which is not ered to be of particular relevance | or priority date and not in conflict with to cited to understand the principle or the | ory underlying the | |
| "E" earlier d | ocument but published on or after the international | invention "X" document of particular relevance; the cl | | |
| (iling date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone | | | | |
| which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the | | | | |
| "O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such document is combined with one or more other such document is combination being obvious to a person skilled | | | | |
| "P" document published prior to the international filling date but later than the priority date claimed "A" document member of the same patent family | | | | |
| | ctual completion of theinternational search | Date of mailing of the International sear | | |
| Dute 5 | out on point of a formation of the second of | but of finaling or are a second | un report | |
| 3 | August 1998 | 12/08/1998 | | |
| Name and m | alling address of the ISA | Authorized officer | | |
| | European Patent Office, P.B. 5818 Patentiaan 2 | | | |
| | NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, | Baert, F | | |
| | Fax: (+31-70) 340-3016 | • | | |

1

INTERNATIONAL SEARCH REPORT

Into Jones Application No PCT/IT 98/00072

| C.(Continu | C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
|------------|--|-----------------------|--|--|--|
| Category ' | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | | |
| A | US 4 848 587 A (NIPP) 18 July 1989 see column 3, line 31 - line 48 | 3 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

1

INTERNATIONAL SEARCH REPORT

. . .

Information on patent family members

Inti Ional Application No

| | nt document n search repor | t | Publication date | Patent family member(s) | Publication date |
|------|-------------------------------|---|------------------|-------------------------|---------------------|
| DE 9 | 213830 | U | 24-12-1992 | NONE | |
| US 5 | 611447 | A | 18-03-1997 | NONE . | |
| DE 9 | 107020 | U | 25-07-1991 | NONE | |
| US 4 | 518092 | Α | 21-05-1985 | NONE | |
| US 5 | 004106 | Α | 02-04-1991 | NONE | |
| US 4 | 848587 | Α | 18-07-1989 | NONE | |